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SCHOOL OF SCIENCE, SCHOOL OF SCIENCE, HURRAY, HURRAY, HURRAY

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Vol. 54

THURSDAY, JANUARY 12, 1961

No. 6

SKULE INVADES ROYAL YORK

IKE LIKES DEEP RIVER BOYS



Late in 1955 Harry Douglas and The Deep River Boys were invited to sing at a White House dinner at the invitation of President Eisenhower. Their popularity with the President was emphasized by the fact that they were only scheduled to sing for 20 minutes and they were asked to do encores for another 20 minutes, for which each member of the group has a personal letter of thanks from the President and Mrs. Eisenhower. This will give you some idea of the calibre of entertainment in store for you at the luxurious Canadian Room of the Royal York Hotel.

You'll have to travel a long, long way to hear music equal to what the Deep River Boys put out. Lest the non-deplume lead you astray, the Deep River Boys are not country or western vocalists. That is to say, they don't specialize in C and W music. They probably could do all right by "On Top of Old Smoky", but they get their kicks out of such as "Dry Bones", "As Time Goes By", "St. Louis Blues", "Greenfields", "Lazy River", and the like. They put the close-out on most shows with a rousing hand-clapping version of "When the Saints Come Marching In"—like they march right through the audience!

Every year, the Deep River Boys set out on tour with their usual itinerary being Canada, the U.S., Norway, Sweden, Denmark, and then Britain. During the tour in Britain in 1952 they entertained Queen Elizabeth, Prince Philip and Princess Margaret at a Royal Command performance at Lon-

don's Palladium Theatre, bringing the Deep River Boys Royal acclaim. Twice they have been headliners at Al Siegal's Club Oasis on the Barclay Hotel where they will again be appearing for two weeks starting January 16. Even though they have a very busy schedule, the palatial Front Street establishment has been very gracious in allowing us the services of this fabulous group for our own format.

Making harmony with lead baritone Harry Douglas are Jimmy Lundy, tenor, and little Al Bishop, bass. Arrangements are by their pianist, Ray Durant. Their show will come at about 10:45 p.m. on the program so don't miss them. Even if you've made numerous trips up to your class's party room by that time and are a little "blind", have the love of your life lead you down to the Canadian Room and just listen to them. The Deep River Boys—A-1 entertainment.

General Meeting

Arrangements have been completed with General Motors of Canada to have one of their top speakers for the third General Meeting on Wednesday, January 25 at 1:00 p.m. in T102. Indications have it, that the speaker may be George Reed, vice-president in charge of manufacturing and a graduate engineer, or A. Stapleton, the director of industrial relations. Both of these men will be able to fill us in on recent developments in the Canadian automotive industry. On top of this either of these will hold our attention with a talk on their respective subjects, manufacturing or industrial relations.

Your questions on the compact car program, the truly "Canadian" car and any other topics will be gladly received.

Social Year's Big Day
Just One Week Away

Has anyone noticed the construction going on at the Royal York Hotel lately? ... safety nets beneath windows? ... carton after carton of soundproof insulation? ... wire cages for lights? ... stairs in, ramps out? This construction results from the foresight of the hotel management in preparation for Toronto's biggest bash of the year. Yes, it's SKULE At-Home time and on January 20, only nine days from now, all loyal engineers are called forth to the annual battle of wits with the Royal York management. For our glorious evening, SKULE takes over the Royal York's party facilities.

The Engineering Society has expressly told the At-Home Committee under the leadership of imaginative Dick Brunton to have the best dance ever. For those of you there last year (and there were a record number of you) you must wonder how 6T0's smasher could be improved.

Well, all the committee members were there last year (they all staggered and crawled back to the SKULE HOUSE at dawn); they all danced to the swinging tunes of Benny Louis and his orchestra in the magnificent Canadian Room; they all had parties with their classes in the rooms that the Engineering Society donated; they KNOW what they have to do and have been working so hard that the arrangements have already been made to insure that this is THE dance of the year.

You first year men must feel that you need a couple of oil wells packed away in Texas so that you can afford to go. Check someone else's copy because you won't believe it when you hear the ridiculously low price for which tickets are being sold—\$3.50. (Three dollars and fifty cents—you saw right?) You haven't heard anything yet. That price (only three hundred and fifty pennies) includes a corsage and favour for the girl and besides that if your class has fifty percent representa-

tion, you will get a room to have a party.

How can the committee afford to put on a dance like this for such a small price? They CANT. But the Engineering Society subsidizes the committee and they turn that money into pleasure for YOU. Benny Louis and his orchestra will be playing the music that is so popular with engineers and their girls from 9-1. Half-time entertainment will see the Deep River Boys, now appearing at the Barclay Hotel, entertain the guys and dolls. The Toronto Room will be open again this year with music.

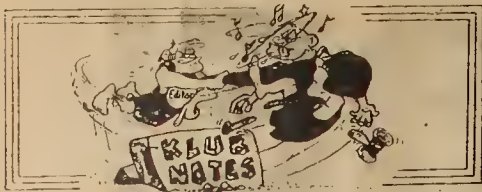
First year men—if you're still hesitant—talk to a second, third or fourth year man who won't last year. They're not hard to find—eyes that faintly resemble a road map of Southern Ontario (with all roads leading to the Royal York); he'll be frantically trying to get fifty percent of his class to go (that won't be a hard job) so they can get a room for their class party.

The rest is up to you. Every girl has heard of and eagerly awaits SKULE At-Home time every year. Your class rep has the tickets so get in and get yours early because there may be a shortage. Remember Skulermen, have a blast and don't treat the Royal York too hard!

Athlone Fellows Leave for England



Our ex-chief, past Engineering Society President Frank Collins (Eng. Bus.), bring up the rear (?) as the Fellowship winners leave for England in September. Others from U. of T. are Steve Chisholm (whose cute wife is seen at the right), Bob Ross, Ron Toborek and Murray Woodside who are all Eng. Phys. grads.



M&M Industrial

The executive of the M & M Club would first like to wish all its members a rather belated Happy New Year. We hope to have more interesting speakers and meetings in 1961 and all members, especially those from I and II years, are urged to attend. By coming to these events they will not only broaden their knowledge of the mineral industry as a whole, but will also meet many of the outstanding men in this field who will be the guest speakers at the upcoming general meetings.

The attendance at past meetings has felt much to be desired, although the speakers have been of the highest calibre. We hope that in the new year more active interest will be shown in the M & M Club and more members will be turning out to these monthly meetings.

The Club is getting its social activities off to a bang on January 13th. This event is an annual M & M Club Dance which is to be held at the Embassy. In past years this get-together has always been a resounding success, and we intend that this year will be no exception. Tickets are on sale, and an enthusiastic reception is expected from all years.

John Lumb,
Vice-Chairman, M & M Club

Physics

I's been rugged, but at least most of us have survived those embarrassing Christmas exams and lab tests (not to mention holiday celebration). There's still time to enjoy life a little before the fence goes up on the front campus.

After two weeks of glorious absence from things academic, it's a little rough getting back to the old grind. To help ease the pain a little, the Eng. Phys. dance at St. Andrew's Golf Club should be a welcome remedy. The Winter Whirl should be a great dry run to the Skule At-Home, so let's see everybody out tomorrow night!

Keep your eyes peeled for the Eng. Phys. Club General Meeting at Hart House; it's coming up soon. Also, there will be more noon-hour film programs shortly; your class rep will keep you informed.

It should be a great spring term. Eng. Phys. is about due to win the annual Chariot Race, since we've been robbed blind for the past few years despite superb efforts. And the club dinner in

Nineteen sixty-one has now arrived and it will be an eventful year for course four. This year will see the first graduating class in Industrial Engineering entering industry to establish a new name for itself.

At the smoker in the fall the topic, "What is Industrial Engineering?" was passed back and forth for a few hours in a smoke-filled room. Most emerged confessing that they were confused still, but taking comfort in the fact that Industrial Engineering had a firm footprint in the engineering community and a growing future. This month, fourth year will have the opportunity to make an important selection for that future. Good luck at the interviews, fellows.

The second general meeting of the Industrial Engineering Club will be held in early February. Every attempt is being made for better publicity at this meeting to encourage a larger attendance. Keep the meeting in mind and give the Club your support.

In keeping with Club activities, I would like to use this column to ask the members their opinion on continuing the hockey tournament, made famous by Engineering and Business. The point in question is this: the cost of such an activity is approximately forty percent of the Club's operating capital with reduced numbers in course four. We don't want to spend money unwisely, neither do we want to eliminate such a successful event unjustly. Perhaps it could be replaced by an equally successful venture with less expenditure. The executive would welcome your suggestions.

The annual Club dinner will be held in late February this year. Plans of place and speaker are not yet finalized but will be published in the Toike Oike later.

In the back room of the stores is a dusty old trophy reputed to have been donated by Mr. Gerry P. Potts (occupation unknown), offered annually to the course that produces the fastest chariot team on the field of battle. On the honour roll of winners I see a few sevens, a few sixes but no fours. There also seems to be some big and fast boys among the Industrial. Either we win or I lose my faith in statistical correlation. If you fit into the above category give your name to your class rep.

Jim Beatty

March has always been a real highlight. We should be well launched by the Winter Whirl this Friday night, so see you there!

Five To Frolic

This year's Engineering Physics Club dance—the Winter Whirl—promises to be a tremendous success. Traditionally held at the St. Andrew's Golf and Country Club on Old Yonge St., the big feature which sets apart the 6TH dance from all previous ones is the appearance of the Harmonies. They produce quite a "big band" sound with their nine piece group which includes three trumpets, two trombones, sax, piano, bass and drums. Due to a generous subsidy from the club treasury, drinks will be cheap. These two factors alone will appeal to all you red-blooded Eng. Phys. men,

As far as the actual details are concerned, the dance is being held this Friday, January 13—at St. Andrew's, and music will swing from 8.00 to 1.00 a.m. Your class reps will be able to tell you exactly how to get there and are also arranging rides for couples

which need them. Dress is informal.

That's about all the dancer committee can do to make the affair a success. The rest is up to you. Course 5 men; so get out and support the dance and have a great time.

P.S.—If you really hit on a good date, you can take her to the Skule At-Home the week after to really impress her.

WORLD CHAMPIONSHIP Chariot Race

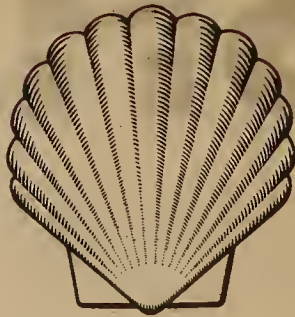
Date: TUESDAY, FEBRUARY 7

Time: 1.00 P.M.

Place: MAIN CAMPUS

Rules: Posted on Bulletin Board outside Engineering Stores and distributed to Club Chairmen.

Trophy Presentation to follow race!



SHELL INTERVIEWS ENGINEERING AND SCIENCE GRADS JANUARY 19-21, 1961

Shell of Canada has openings for 1961 graduates in engineering and the sciences. These positions, in the company's exploration and production, manufacturing and marketing departments, offer scope and opportunity for the graduate interested in a challenging and rewarding career. A few summer positions for 1962 graduates are also available.* Your university placement office can supply further details, arrange an interview, and provide a copy of "Opportunity With Shell", a booklet which contains full details on many Shell career jobs.

*These positions are in exploration and production. Interviews will be held January 17 and 18. For interviews in refinery work contact the placement office.

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SHARE!

A Dollar A Skuler

"A Dollar a Skuler." That's our campaign slogan for the upcoming World University Service annual fund-raising drive; Share. Everyone has heard of WUS and the work that it does. (If you haven't just glance over a couple of columns.) WUS certainly knows how to use this money effectively. However, Skule is going to go them one better and embark upon their own special project.

At present plans are underway to allow our faculty to bring a foreign student to Toronto to complete his education. In fact, by the time this paper is published these plans should be finalized, one way or the other. Several students are under consideration as possible candidates including some who have been asked to leave school in their native countries because of political pressure. For instance, a man from South Africa whose feelings on racial questions do not coincide with those of the government's is one of them.

Such a project was completed successfully by Skule several years ago. The result was a highly amiable and intelligent Egyptian, Mohammed Dokainish, Mohammed completed his studies for a Master's Degree and then won scholarships enabling him to continue for his doctorate. Anyone who has met him knows the value of bringing such a student into our midsts.

The task of raising sufficient funds should be easy. Remember we did not stage a United Appeal drive. The chief reason was expressly to devote more time, effort and MONEY to Share. This campaign MUST be a success if Skule is to maintain its place of respect in this university. Imagine how our reputation will be deflated if after loudly proclaiming our op-

position to U.A. in favour of Share, our campaign is a complete flop. We can't afford to let such a consequence occur.

The student body has not been asked to donate to any charity so far this year. Share will be the ONLY one that they will be asked to support. Certainly it is worthy of such support.

Share is organized by university students for university students. It runs its finances strictly from the donations of its student members; such funds are used to help students anywhere, no matter what their plight. For instance, last year's funds from the U of T went towards the assistance of Japanese students involved in the devastating floods which hit their country last spring.

Our local campaign will be launched Monday, January 23, to coincide with the university's drive. It will last until the following Friday and will be full of promotional events. Debates, films and discussion groups are planned. Prizes will be awarded to the leading classes. (Prizes of value, mind you.)

Your class reps will be around to see you soon. Why not surprise them and have your buck ready. In fact, considering the fact that we didn't have a U.A. campaign and we all know the value of Share, let's all give \$2.00

Programme Of Action

World University Service has been carrying out a program of mutual assistance among university communities to meet their varying needs since 1919.

Through a planned "Program of Action", World University Service aims at coordinating the efforts and contributions of innumerable students and teachers from all continents in a united enterprise toward the greater well-being of university communities everywhere.

In some countries, projects to help meet material needs occupy a large part of the program; in some, aid to refugee students requires concentrated efforts; and in others, special attention must be devoted to stimulate and develop self-supporting educational projects.

More than seventy-five projects have been planned for the next two years; these will involve an expenditure of almost five million dollars. Every continent except North America and Australia will receive some assistance, and while in many cases the expenditure is not large, the relative value of money in these countries allows considerable to be accomplished.

For instance, \$1,164 has been allotted the Kathmandu Student Centre in Nepal. At present there are no hostels and no centralized facilities for extracurricular and recreational activities for some 6,000 students enrolled at twelve institutions in Kathmandu. The Nepalese committee, in co-

operation with the Government and student organizations, has drawn up plans for a modest student centre whose facilities could in time form the basis of establishing a more comprehensive project, including a hostel. The centre will be a source of income to be used for expanding the student welfare enterprise.

So far, a site has been obtained as a gift from the Nepal Cultural Association and WUS has made a contribution of \$698 to help initiate construction. The Nepali

Committee is now endeavoring to secure building materials as gifts as well as raising funds to help complete the project. Thus a small outside contribution will be sufficient to assure success.

Very little WUS money is absorbed in the Central Administration at Geneva, Switzerland. In fact of the total of almost five million dollars only eighty-six thousand has been allotted for this purpose. Through self help and local voluntary administration, much can be accomplished.



offers

ENGINEERS

Career Opportunities!

A rewarding, satisfying career awaits the Engineer in the Royal Canadian Air Force. With the increase in aircraft performance, the refinement of flying procedures and the growing administrative challenge, the RCAF now offers the young man with a university background a greater than ever opportunity.

The duties of an Engineering Officer in the RCAF are as broad and diversified as the Air Force itself. It's a proud, exciting career — and it can be yours.

By joining the Regular Officer Training Plan you can continue your course and acquire financial benefits that include a monthly salary, tuition and other allowances from the date of application.

On graduation starting salaries range from \$5,000 to \$7,200 per year.

Arrange an interview with the University of Toronto Placement Service.

On January 19th, Group Captain Truemner, A.F.C., C.D., will visit your campus to interview final year undergraduates interested in permanent employment.



THE ROYAL CANADIAN AIR FORCE

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the New*

IBM 1620

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IBM Downtown Office — 481 University Avenue

Demonstration Hours

January 12th and 16th — 3 p.m. to 7 p.m.

January 13th — 3 p.m. to 9 p.m.

The new IBM 1620 is a desk size engineering computer for complex scientific and engineering calculations. It is presently on tour across Canada and because the IBM 1620 is of special interest to all students in Engineering, we invite you to see it in operation now, while it is in Toronto.

INTERNATIONAL BUSINESS MACHINES COMPANY LIMITED

TOIKE OIKE

Devoted to the interests of the undergraduates of the Faculty of Applied Science
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THIS ISSUE: Fron and John Bront, Dove McMurtry, Jack Abello, Ross Millor, Jack Horner, Ernie Wilson, Howie Nobert, Bob Cormichael, Bruce Gowans, Bruce Kisluk, Roger Jones, Jim Beatty, Brian Corter.

Artsmen Weaken

Well, contrary to custom, the Engineers' Christmas tree in front of the Little Red Skulehouse is still standing. Perhaps I should explain this statement to all lowly Freshmen who have not yet had sufficient brainwashing. Tradition has it that shortly after our tree, which our Dean so kindly donates each year, is erected, it is stolen by a few brazen, Artsmen!

How this tree ever reaches a vertical position in front of the Skulehouse is a wonder in itself, for shortly after work begins most of the workers are horizontal. The job begins when the base is checked for faults in the strata by the Miners and Geologists (in their usual peremptory manner), and it is then precariously conditioned for underground corrosion by the stalwart Chemicals. The tree, which the Metallurgists had fitted with a specially designed steel centre to withstand the assaults of ordinary hacksaws, is then erected (and with much difficulty) by those intrepid Civils (they are the ones with all the structural knowhow?) and the usually faulty wiring and lights are installed on the tree by the Electricals. The probability of the tree remaining standing for a given period of time has, of course, been estimated to an infinitesimal-accuracy by the irresponsible Industrials, aided by past records and the ultramodern "Little Brown Jug Process". During all this the Mechanicals have been making frequent hair-raising trips in their prize winning chariot to the Spadina and Dundas area to keep the boys refreshed and to keep a few determined Eng. Phyzzers from trying to launch the whole project and put the tree (and the attached T.V. cameras) in orbit around Whitney Hall.

As long as the Christmas tree didn't disappear too quickly, we have been quite grateful to the Artsmen for removing it, for, quite honestly, it saved us the trouble. But it seems that this year, their usually low spirit has reached an all-time low! This year's culprit didn't attempt to steal the tree, he (or they) contented himself with taking off the light bulbs on the lower part of the tree, probably to go with a string of lights he had stolen somewhere else. He didn't even have enough ambition to unscrew the lights on the upper half of the tree — he only took the ones within arm's reach. A real "snatch and grab" man this time!

If the brave man would like to drop around to our office we would be only too happy to give him the rest of the bulbs. Sure we would hate to see his tree only half lighted next Christmas.

To Whom It May Concern

It is extremely gratifying to receive Christmas presents, for the spirit in which they are given usually reflects the warmth and feeling of Christmas. The great pity of it is that sometimes the "card" is unsigned and one does not know to whom they should direct their appreciation. Perhaps a letter to the Editor would suffice.

IAESTE The International Association Of Students

Work This Summer Across The Sea

The International Association for the Exchange of Students for Technical Experience, known to all those who have anything to do with it as IAESTE, is one organization that all Skulemen would be wise to investigate. Last year, three stalwart engineers went overseas under its auspices. Roger Jones and George White (IV Eng. Phys.) were sent to Germany to work at the renowned Leitz Optical Works and Len Green (IV Eng. Phys.) was given a job at a university in Israel.

Elsewhere in this article you will read the information which was sent to us by the Engineering Institute of Canada and a short account of the adventures of the pair who went to Germany. The Toike Oike considers this opportunity so worth while that we are devoting an entire centre page article on it, and we hope that all third year engineers will consider it seriously.

The requirements which are listed in the box at the centre of this page seem to us a little harsh. We found that the language requirement especially turned out to be quite insignificant. The official statement opposite reads, "In countries where there is a language requirement, such as French or German, fluency is essential. Matriculation language proficiency is not enough". One of us had a matriculation in German and the other had had only a year of technical instruction yet we found there was no real difficulty in making ourselves understood. After a few weeks of continual practice ("Zwei Bier, bitte") we spoke it like a second language. The authorities at Leitz seemed quite surprised that we knew any German what ever and quickly allayed our fears that our limited knowledge was insufficient.

Transportation to and from our place of work was another problem that worried us for a while. We were able to obtain very reasonable rates both ways, leaving on a ship of the Greek line at a reduced rate and returning on a plane especially chartered by the German Student Travel Service. This flight cost us about \$150.00 apiece, quite a bit cheaper than the commercial rates.

To be a Canadian in Europe is an experience that has to be lived to be believed. There haven't been enough Canadian tourists over there yet to make themselves obnoxious and European citizens are quick to make a distinction between Canadians and their British and American cousins.

Like anything else, there are expensive ways to do things and there are ways which don't cost quite so much. Our trip was one of these. The only big expenses were the costs of transportation across the Atlantic. Except for this, our trip would have been cheap indeed. In the little town of Wetzlar where we worked, we were able to dine very well. A meal consisting of a fine soup and a sumptuous main course, born gently to the stomach on a torrent of exquisite Rhein wine could be had for fifty cents. An interesting evening spent at a little cafe floating on the Main river in Frankfurt cost only fifteen cents a shot. Gasoline is expensive but the midget motorcycles which we bought second-hand for fifty dollars were supposed to get 317 miles per gallon, so that it cost very little to keep them running.

But the whole philosophy of travelling on a student budget is something that must be considered carefully. Perhaps the best way to go about something like this is to do it first and then worry about how you're going to pay for it later. This may sound slightly crazy but an operation of such a magnitude as a summer abroad can easily be put out of perspective by adding up lists of estimated expenses. Money can be begged, stolen or borrowed; it can be paid back after graduation. The benefits that a student can obtain under a plan like IAESTE's are much more enormous than they might appear, at first glance. Don't let money or lack of money put you off.

In closing, it would be well to point out that this plan is not restricted to engineering students. "Technical experience" is to be interpreted very liberally. I could apply to work in a bank or some other "non-engineering" aspect of employment.

The only trouble with the plan is that third year students alone are eligible. This means that unless you decide to do post graduate in third year, as a few of us do, you can't do this thing twice. We're still looking for another way to get back.

This association is a non-profit, non-commercial organization whose purpose is to find temporary employment abroad, in engineering, for undergraduates during the summer preceding their final year of the engineering course. Only within the limits of the students eligible. Normally all branches of engineering are included, and the period of employment is 12 weeks. This can sometimes be made longer.

The responsible agency in this country is

The Engineering Institute

2050 MANSFIELD STREET, MONTREAL 2

Positions are found for foreign students. Canadians are assisted in getting technical experience in Europe. At the present time this exchange is limited to students from Canada and the U.S.A. In other countries where there is a language requirement, fluency in French or German, fluency is essential. Language proficiency is not enough.

Experience has shown that at European universities which are generally much lower than in Canada, it is impossible to make ends meet out of earnings. Transportation to pay for. For this reason the exchange is primarily for those Canadian students who have means beyond the needs of their final year.

Once the exchange has been arranged and accepted for a definite position in Europe, the student makes his own transportation arrangements. He obtains for himself a Canadian passport, if required, from the nearest Consulate or Embassy. He goes to visit. Sickness and accident insurance is compulsory, for the full period of absence, and must be arranged by the student.

If you decide to apply for a position, you must write to Prof. A. C. Davidson, Room 36, Engineering Institute, complete the student side and return it to the Engineering Institute Headquarters, the Engineering Institute, 2050 Mansfield Street, Montreal 2 with the fee of \$25.00. Of this amount \$20.00 will be refunded if you proceed overseas, or if you are permitted to return to the State in a separate letter your preference giving first, second and third choice of countries. If you are interested in such fields as manufacturing, Mass Production, Radio, etc., you should mention this in your letter.

Those eligible should note that the exchange is for one year and that withdrawal will only be permitted for a reason such as illness.

Any other queries can be answered by writing to the Engineering Institute.



Anyone interested in getting technical experience abroad will be thoroughly propagandized by the Engineering Institute touch with anyone of

Len Green
Roger Jones
George White
IV Eng. Phys.

International Association For The Exchange Of Students For Technical Experience

a non-profit, non-political organization to find temporary employment for undergraduate students during their final year of a university. Only within those conditions are normally all branches of engineering. Period of employment is about 10 to sometimes be made longer, if desired.

money in this country is...

Engineering Institute of Canada 1000 RUELLE DU TRAVAIL, MONTREAL 2

and for foreign students, and Canada getting technical employment in time this exchange is NOT operated and the U.S.A. Please note that in is a language requirement, such fluency is essential. Matriculation is not enough.

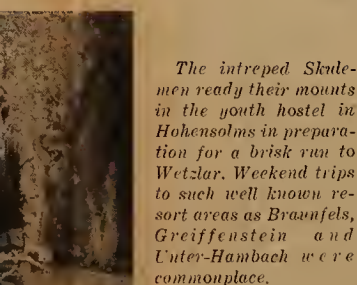
own that at European rates of pay, much lower than ours, it is almost meet out of earnings, with transfer this reason the plan is of interest Canadian students who have financial of their final year.

has been arranged, and the student position in the other country, transportation arrangements. He must Canadian passport, and visa, if rest Consulate of the country he is and accident insurance are required of absence, and this must also identify.

apply for a position, obtain a form from Room 36, Electrical Building, and return it to I.A.E.S.T.E. Engineering Institute of Canada, 2050 Avenue du Parc, with the registration fee of \$20.00 will be refunded to you when or if you are permitted to withdraw. Better your preference of country, and third choice, and the type of interest in, such as Heavy Manufacturing, Radio, Research etc.

old note that the fee is \$25.00 this will only be permitted for good

can be answered by Prof. Davidson.



The intrepid Skulemen ready their mounts in the youth hostel in Hohensolms in preparation for a brisk run to Wetzlar. Weekend trips to such well known resort areas as Braunfels, Greifenstein and Unter-Hambach were commonplace.

ed in getting more information propagandized if they get in of

Len Green
Roger Jones
George White
IV Eng. Phys.

Summer Jobs With IAESTE In Europe

By ROGER JONES

Last summer, George White and I went to Germany to work for two months with the makers of Leica cameras. It was one of the most fascinating and worthwhile periods we have ever spent, and since the opportunity to do likewise is open to all third year Engineers, we would like to urge Skulemen approaching their final year to take advantage of the IAESTE program.

Our trip was organized by the International Association for the Exchange of Students for Technical Experience, a non-profit body which works through the Engineering Institute of Canada. Every year, IAESTE helps Engineers all over the world travel outside their own countries. In particular, it sends about forty Canadians to work in Europe for a few months each summer, finding paying jobs for them in a European Country in some engineering industry. In return, it expects the student to be able to speak a little of the language of the country he is visiting. We ourselves found this requirement was not very important; we were able to carry on a conversation of sorts with the German waitress that we met almost immediately, and persistence soon paid off. I could speak very little German when I went over.

The pay in Europe is low by Canadian standards; it is enough to live on over there but not enough to pay the fare over and back across the Atlantic. This we had to pay ourselves. IAESTE does, however, put students in touch with the Council on Student Travel, which arranged low-fare passages for us and supplied us each with a rebate of \$50.00. IAESTE also helped us get all the necessary forms and documents for work in Germany. Before leaving Toronto, we joined the International Youth Hostels Association, a very useful organization, as members of which we could use European Youth hostels and obtain a bed for the night and meals all for less than 75 cents a day.

We sailed eastbound from Montreal on June 3rd with two hundred other students like ourselves; this trip over was one long ball (brawl?), and we both needed a rest by the time we docked at Amsterdam on June 11th. There was no time for staying long though, for we had to be on the job only one week later. Hitch-hiking across Europe through four countries, we managed to reach our destination the day before we had to report for work. The factory was located in a small town called Wetzlar just north of Frankfurt am Main.

At the plant, the reception they gave us was tremendous. We were given a guided tour of the factory, and were allowed to choose to work on anything that interested us... that is, work on anything within reason. The job that we had to do was of an undefined nature, and we had, as far as we could tell, freedom to wander around the whole factory and watch everything going on. There were over six thousand employees in this factory, engaged in everything from hand-grinding blocks of glass to working out complex optical problems, and so we had no lack of things to find out.

On the weekends we were often taken to the nearby towns and cities by workers; being located right in the heart of Germany, we were close to all of its major cities, and we had time to visit Koblenz and Frankfurt on these days. The Germans themselves went out of their way to be friendly, and invited us to their homes and to local events. We found out later that, by the wisdom of the personnel manager, we had been placed in a department with a particularly good fraction of young members of the fairer sex, which did a lot for our social adjustment.

Our job terminated on August 13th, much to our regret; our adventures had, however, only just begun! For the next five weeks, we travelled around Europe on the motorcycles we had bought, staying at nights in the youth hostels which abound in European countries. I even had a chance to see something of Yugoslavia before returning to Frankfurt for the homeward flight.

We flew back to Toronto via New York on a chartered flight with a crowd of European and American students, and reached Toronto just in time for the second lecture of the fall term at ten o'clock on Wednesday morning. Tired as we were, one thought predominated... "What a terrific way to spend the summer!"

John's Jottings

A PAUSE

Although the first term finals were held just last week, it is only a little more than thirteen weeks before the final day of reckoning comes.

In the meantime, however, Skule's two most important social events should fill the minds of all. In less than two weeks, the At Home moves into the Royal York and then on March 2nd comes the night that the class of '61 has been waiting for four years (or five or six), the Grad Ball.

But what happened to the At Home tickets? The original plans for the dance had required that all class reps would receive these on the Monday before the Christmas holidays. Thus, fellows could arrange for dates from home over the holidays.

However, the tickets were four weeks late and now the class reps must push them less than two weeks.

Those who attended the bash in the Royal York last year will agree that unlike many social functions, the bigger the crowd, the better the At Home. Many Skulemen will automatically attend, but many others must be sold the idea. If you're in the former group it is your interest to hard talk the latter into action.

WARDEN McCULLEY AND QED

Toronto's new television station, CFTO, not only brings us the Wednesday night Leaf games, but also none other than our own Warden McCulley. Each Saturday evening at eight o'clock, the warden acts as moderator on the show Q.E.D.

If last Saturday's opening performance is any example this show is both enlightening and humorous. Regular panelists Marcus Long, well known to fourth year engineers, and Rabbi Feinberg, who is always worth listening to, were joined by the real Eva Gabor (and man was she real). This group was asked their opinions on such items as "A mild flirtation is a good substitute for smoking".

For a half hour of relaxation before you go out or hit the books on Saturday evening, have a look, I think you'll like it. And as Eva Gabor said several times, "Don't you think so, Joe?" (with the appropriate accents).

SHARE SHARE SHARE

You were not asked to give to the United Appeal, and the rest of the campus knows it. Our Share Campaign must be a success! Give two dollars. That's less than one mickey of palatable rye.

SCHOOL SPORTS

Noon hours need not be wasted filling a chair in the Arbor Room. Good hockey, basketball and waterpolo are being played regularly in Varsity Arena and Hart House gyms and pools.

As usual School's top teams are in contention for the championships in both sports and deserve our support. Moreover the best games are scheduled for noon hours. A look at the timetables shows that Engineering seems to have a priority for games between 12 and 2 o'clock.

Today, why not drop into the main gym at one to help Sr. S.P.S. beat Vic. in what should be an exciting basketball game?

U.N. TROOPS

I suppose the fact that African cannibals attacked Irish United Nations troops has provoked a considerable amount of serious discussion throughout the civilized world, but the following casual comment overheard in the Arbor Room last week is well worth repeating.

"The United Nations soldiers can't pull out of Africa; the natives need the food!"

L. G. M. B.

Jim Skeaff is currently leading the Lady Godiva Memorial Band to its greatest season. His latest achievement was a highly successful performance at the Bohemian Embassy, an after hours meeting place organized by some ex CBO technical men.

So successful was the LGMB that they are expected to reappear sometime soon to provide the patrons with unusual arrangements. When the final plans are completed for this return engagement, every attempt will be made to inform all Skulemen so they may enjoy the delightful music.

CANNON

The cannon looks safe this year, and not only because it is so well protected. Spirit just seems to be lacking in the Arts Colleges and it's almost two years since we heard from the Medsman.

At the Mulock Cup final, the Brute Force Committee had carefully prepared to assist the Chief Cannoneer, Ross Bird, in getting the Cannon out of the University district. However, not a single Artsman raised a protest. Before long we will be able to throw away the chains and war clubs.

TOÏKE JOIKE

Recently at one of the downtown banks five robbers entered with guns drawn. "Okay," one of them snarled at the stenographers, "all of you dames lie down on the floor."

"Say," one of the girls objected, "what is this—a bank robbery or a board of directors' meeting?"

Jack From Sac

You might think that after being on SAC for half a year my personal bank account would be in a more substantial condition than previously. But sad to say all I have managed to acquire is caffeine nerves from the free java given at the bi-weekly meetings at Hart House. Mostly because the finance Commission is such a watch dog group that it can account for every copper portrait of our beloved Queen—and this even with a SAC budget of \$170,000.00. There have been other fringe benefits, though, in this first half year term of being a SAC rep. Why there was the test I flunked because it was the day after a meeting—but these are occupational hazards and you won't find me complaining (not 'til later anyway, say about April).

So far there hasn't been an explosion on SAC to focus attention—but that of course does not mean that the council has been inactive. The regular activities and projects such as the Blue and White Dances, the University Symphony Orchestra and Chorus, the Debating Union, the Blood Drive, the "Varsity" and the weekend exchanges, to mention only some, have met and are meeting with success. (In fact if you drop into the SAC building you'll find the meeting in progress.)

A major recurring problem is to whom to give money—no point in dashing over with outstretched hand, SAC doesn't have you or me in mind—the campus UN Club was granted some money after a very lengthy discussion. Other requests including one from a university in Japan were turned down. It seems however that most members share the opinion that money should only go for such things that benefit the students at the University directly, with the exception of humanitarian causes such as the aid that was given to Algiers following the natural disasters there (remember that—oh so long ago!) Donations to particular groups such as the UN Club pose a problem though, which has yet to be resolved.

Little known are the efforts made by certain members of the Council to have the University Administration stop applying its boots (that indomitable group of university police) to the

posterior aspect of students who would like to play ball on the campus on Sunday. Because of these gargantuan efforts the campus will be open to those who wish to play ball on Sundays.

Now it's time to pack my briefcase after this winter recess and head back up to "Parliament Hill" and protect the interests of the Engineering Faculty in particular and the U of T students in general. Anyone interested in sharing this burden please be at the KCR 5.30 p.m. tonight with plenty of folding stuff and a strong stomach.

Sincerely yours,
Jack M. Abella,
IV Eng. Phys.

Society Minutes

After various members were reported late, absent or otherwise incapacitated, the meeting got underway.

—Howie Malone received a letter from Thelma Rosenberg (II UC) to the effect that when the Skule Cannon was fired in the J.C.R. last term, the paper projectile inflicted bodily injury upon her in the form of one bruise requiring treatment by the Health Service. Her coat was also ripped by the paper projectile and she wished the Engineering Society to pay for the damages.

—It was decided that damages would be paid for Thelma Rosenberg's coat.

—The financial statement for the 6TI Cannon Ball was approved.

—The disbursements for the months of September and November were accepted.

—Dave Rutenberg informed the executive upon the arrangements for the Christmas Party for the University Settlement children at Hart House. Various cries were heard to the effect that everyone should wear shin guards. The meeting was adjourned amid cheers of Happy Yule and sundry greetings.

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PROFESSIONAL ENGINEERS of the Province of Ontario

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Dr. L. E. Jones

would he have done 3,000,000 (1 significant figure) years ago? — or for that matter, what will he do 30 years from now? These and many other problems will be discussed by Dr. L. E. Jones of Mechanical Engineering when he addresses the Royal Canadian Institute (founded 1849) in Convocation Hall on January 21, 1961. The topic is "CALCULATING DEVICES — ANCIENT AND MODERN" and the alternative title is "Pebbles, Powers and Plugboards". Automatic computers are now in such widespread use that it is important for any engineer to be aware of what they are and what they can do. The lecture will be at the level of the non-specialist, so here is an opportunity to combine business and pleasure, as Dr. Jones' accom-

plishments as an informative and entertaining speaker are well-known.

In addition to displays, colour slides and motion pictures, there will be demonstrations by means of closed-circuit TV, whereby apparatus operated by the speaker will be projected on the screen as a large-scale image. This constitutes a pioneering venture in visual aids at a public gathering. The address is part of the Royal Canadian Institute's Saturday evening series of popular science lectures — held in Convocation Hall at 8.15 p.m. Admission is free and the general public is cordially invited. Students and their friends are particularly welcome.

Skulemen Triumph

Four noble engineers have been lifted to the most exalted realm of glorification for an accomplishment which will rank with World War II as one of the greatest victories of modern time. In the University Harrier (Cross-Country) meet held in High Park on Nov. 5, S.P.S. had four entrants, comprising a team. These four humble yet determined men, Jeff Jewell (II Eng. Phys.), Doug Preston (I Civil), Ed LaHay (I Elec.), and Bob Carmichael (II Eng. Phys.) had trained ardently for this meet, having accumulated all of 2 hours training between them.

The team placed a magnificent 2nd in the team standings, while Victoria College, last year's champions, finished second last. There were two teams entered. The Skulemen were evenly matched in speed and ability, placing 10th, 13th, 14th, and 15th. There were fifteen runners in the meet.

The treacherous course was five miles long, with two rivers to be swum, a swamp to be waded, a gorge to be crossed by rope, bear traps placed occasionally, and a girls' camp to be

Basketball

There has been a very good turnout for basketball this year, especially in the minor leagues, where we have entered twenty-four teams. We also have 14 major league squads to round out the picture, so there should be plenty of action in both divisions.

However, one problem has arisen in that not enough players have turned out for the III's. Anyone who would like to play basketball of the calibre of the third league is eligible and asked to turn out. Players cut from S.P.S. A's and Jr. Skule are especially welcome. If you are interested in playing for the III's drop down to the Athletic Stores at noon hour and leave your name with one of the fellows there.

Mini Basadur, the basketball commissioner, would like to announce that he has found a capable coach for S.P.S. A's in Jim Maguire, the stalwart Blues' centre.

—Boh Mathieu

traversed. LaHay ran a good time of 28 minutes, while Jewell and Carmichael could not be clocked because the hour hand on the stop-watch was broken. If the night curfew hadn't been declared, they might still be running. For this mighty achievement they are now awaiting an audience with Her Majesty, their court dress appearance being White Tie with Engineering Jacket, of course. A gruelling race nobly run. Skulemen! (Wait till next year.)

—The Sprinter

Volleyball

Senior Skule has once again proven its superiority by winning the interfaculty volleyball championship. With the able leadership of Andy Nigrini they showed what a team with a lot of spirit and ability can do. This team went through the entire season without a defeat.

Congratulations to St. Skule! Another major league team, S.P.S. II, fared quite well during the season. Unfortunately



—Photo by Jerry Cuttler

An unidentified Skuleman scores against Meds in lacrosse playoff action in Hart House's main gym.

Poolside with Skulemen

SWIMMING

Well, the Intramural Swim Meet is over and Skule lost to Vic 66-55. The fellows representing Skule did a terrific job, none of them placing worse than 4th.

However, the fellows who did not show up cost Skule the meet. After all, what can eight Skulemen do against a hundred Artsmen? We had a poor entry of only sixteen swimmers in the first place, and this poor effort was crowned when only eight swimmers turned up for the prelims on Tuesday, Nov. 29. The gross indifference of the Skulemen who did not show up cost Skule 200 points for scratched entries in the Reed Trophy race. With this kind of pathetic participation, Skule doesn't deserve to be in first place for the Reed Trophy, and it's a certain fact

they were forced to meet St. Skule in the semi-finals and were well beaten.

Our minor league teams played well and showed good spirit, although only one team reached the semi-finals.

There was only one default by an Engineering team this season. That is a record for all players to be proud of, considering the fact that there are a total of twelve Skule teams playing at least six games each.

—The Slacker

we won't stay there if this continues.

Let's hope this situation is remedied in time for the University Championship Meet in February. Surely Skule can be represented by more than 0.5% of its students.

Skule pays tribute to those eight men who swam in this last meet, with special mention to John Harper, Jim Skeaff, and Bob Smagola who garnered three firsts.

WATER POLO

The water polo outlook is quite bright as again six teams have been grouped for the 1961 season. The team lists are posted on the Athletic Notice board outside the stores. Of particular interest were two teams, "Nuts" and "Bolts" entered from the IV Mechanical class, and a team mostly of second Chemical boys. This is the kind of class representation we like to see. Keep your eye on the notice board to see when practices and games are being scheduled.

Another news item John Harper and Kirk Thompson were named to the Intercollegiate Water Polo team, and both were key men — Kirk being the goal-getter and John being the goal-stopper in bringing the championship back to Varsity. Congratulations, guys!

The Splasher

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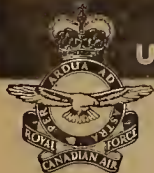
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By BOB MATHIEU

The year nineteen hundred and sixty is now history.

The year's end is traditionally a time for pausing, reviewing, reflecting and, of course, resolving. After the tremendous scare which last week's exams threw into all of us, there is no doubt that all the men of Skule have by now done some conscientious soul-searching and made copious determined resolutions to quit fooling around, to hit the books, to get on with the task at hand and forget about that cute blade with the inviting blue eyes, or the cuddly redhead, etc., etc., an nauseam.

With this first year of the Soaring Sixties has gone the fall term.

We do not intend to present here another of these "Best-That" and "Worse-That" polls, although we do think it appropriate to recall some of Skule's triumphs and outstanding near-misses during 6T1's first term.

One of the first things that comes to mind is the winning of the Arts Cup by an excellent Sr. Skule soccer team. Of course, the injury-riddled Sr. Skule footballers also deserve credit for their gallant and spirited challenge of Victoria's Mulock Cup champions. In the upper gym at Hart House, Sr. Skule successfully defended its volleyball championship, climaxing an undefeated season. Our lacrosse representatives acquitted themselves well, with Sr. Skule getting to the semi-finals, where they lost out to Vic., the eventual champions. Our trackmen, although they did not capture any meets, garnered for Skule a record number of Reed Trophy points, and should add appreciably to their impressive total in this term's indoor meets. Several Skulemen won spots on the Varsity rowing team, and helped the crew row a surprisingly strong race against Western. These boys will form the nucleus of next year's squad.

As we mentioned at the beginning of this column, people are prone to look back as a year closes. But it must also be said that they are, in addition, most wont to look ahead into the uncertain light of the coming year.

We are now definitely committed to 1961. Of course it is natural for us to desire that the new year bring us good health, world-wide peace and understanding, and academic success. But what does it hold for Skule's athletes and fans?

Hockey prospects are definitely bright. At least four of our teams were undefeated in 1960, and Skule should win several league championships as well as the Jennings Trophy. On the basketball court we are also well represented and are once again rated as strong contenders for the Sifton Cup. In squash, Senior Skule is the only real contender, but they have a good chance of going all the way. Our swimmers (the ones who showed up) did very well in the Interfaculty meet and are expected to add considerably to their laurels in the University Championship. Waterpolo is shaping up well and again we are very much in the running, as is the case with curling.

Elsewhere in this page there is an article which gives an excellent break-down of the finer points involved in winning the Reed Trophy. We urge you to read it, if you have not already done so.

Curling

Once again this year curling at U of T is off to a good start. Twelve rinks are competing in the University league this year. The games are played every Sunday afternoon at the Tam O'Shanter Golf and Country Club. S.P.S. has four rinks in the league, skipped by Bill Kirkland (III Mech.), Grant Coffery, Gerald Pizer (II Elect.), and Bruce Gowans (III Eng. Phys.). The Devonshire rink is skipped by able skuleman Steve Wilton (III Eng. Phys.) who is currently tied for first place. Curling for the spring term will get underway next Sunday (Jan. 15). The league could still use some more enthusiastic curlers so if you are interested phone Ken Ingo (IV Mech.) at WA, 2-7231.

The Sweeper



—Photo by Jerry Cutler

Sr. Skule forward W. Williams fires a blistering shot at Meds goal in Arts Cup-Final. This was typical of excellent play which brought Skule a 2-1 victory.

If It's Not Pumpkin Pie, It's Squash

The prospect of an S.P.S. sweep in interfaculty squash is not as bright as it was at the beginning of the season. At least then all the Skule squash teams were tied for first place in each division. It is expected that Senior S.P.S. will make the play-offs since there are only five teams in their division, three of which are chosen. But the other Skule teams, with a sustained team effort and a few defaults by their opponents, could very well be up with the leaders in their group.

The increased interest in squash in the last few years could be due to the apparent brutality of the sport. There is usually some indirect body contact, and if an opponent is about to make a winning shot there is sometimes direct body contact. However, most physical effort is directed at the small, black, rubber squash ball. And true to the nature of most people, who are trying to show others their unlimited physical strength, an attempt is usually made by the squash player to send this small missile completely through the front wall.

Indirect body contact results when one player hits the other in the small of the back, or other protruding areas, with the squash ball. In accordance with the rules of sportsmanship this is only done accidentally or when you are too far behind in score to catch up. After a few of these recovery shots you will likely have a clear shot at the front wall for the rest of the game, and you will pro-

bably notice that your opponent courageously stays near the back corners of the court.

Squash does not require much equipment, only a complete disregard of life. The racket, which is well constructed and costs between ten and twenty dollars, will last anywhere from a half hour to a week depending on how hard the player tries to break it on the side walls. Some rackets, with the aid of a murderous opponent, have been known to last a lifetime. The squash ball is the only other ab-

solute necessity, although wearing apparel is recommended for chilly courts. A knowledge of the rules is not necessary as more points can be gained by making them up as you go along.

As squash requires the speed of hockey, the endurance of a runner, and the accuracy of a marksman, and with the advent of closed circuit T.V. to increase the spectator facilities, it may well become one of the world's most popular sports.

Squasher

A Close Look At The Reed Trophy

Now that Skule has started for the last term it might be in order to analyse our athletic position. As everyone probably knows we lead in the Reed Trophy race by a scant 100 points. When I say scant I mean to emphasize that this is far from a cushion.

In order to win the trophy we must put an all-out effort into this term. Not only must we win championships but we must also win the individual leagues. Surprisingly, a team such as SPS 9 in hockey can earn as many Reed points by winning their league as will be gained by winning the championship. Here then is the answer to a winning year for Skule:

There is, however, a very serious drawback to having so many teams. The penalty for default is the loss of 100 Reed points. This is approximately one half the amount that our senior team can get by winning every game, the league championship and the overall championship combined. Thus two basketball defaults almost nullify the efforts of the senior men. Also the 100 Reed points for defaults is the same for every college, unlike the gradation in awarding the points. This means that a default for Skule is three times more serious than a St. Mikes' default. In any year that we have come second in the Reed

Trophy Race we have been beaten by only a few hundred points. In fact, one year we lost by 19½ points.

I hope this impresses upon all of our athletes that their selfishness in causing a default is very unfair to every other Skuleman.

Before I finish I would like to put a word in for the individual sports like swimming and track. Last year after we had led in the Reed Trophy Race until the last week we then lost to St. Mikes. I decided to look a little closer at the reason. The answer I found really hurt. We lost the Reed because we were poor in track. Only about four trackmen ran for Skule all Spring. Not only can we pick up unsurmountable Reed points but the athletes themselves can pick up "S" points far more easily.

I think I've said enough. I just hope that everyone will take some of this to heart and get out and put SPS at the top where it should be.

Howie Nobert

ED. NOTE:

Last term rowing enthusiasts were erroneously referred to Ernie Wilson, who is responsible for swimming and waterpolo. The man to phone about rowing is Jack Russell—the coach of the crew—at CH, 6-5907. Indoor training is now in full swing.



—Photo by Ian Thompson

Holback Gerry Lonergan (30), of Skule's senior, Katani (66), in Mulock Cup-Final as Cliff Swain team, is upended by Vic's corner linebacker, Fred (38) and Dave McCarthur (42) move in.

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